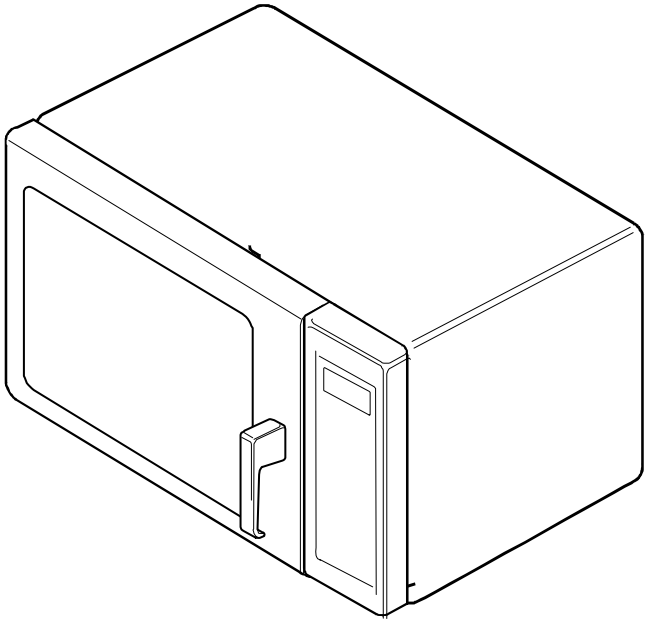
# Training Manual

## 50 Hz

**DECS11MA** ..... (P1330217M)
**DES11EA** ..... (P1330218M)
**DFS11EA**..... (P1330220M)
**RCS511A**..... (P1330214M)
**RS511MB** ..... (P1330211M)
**RS511P** ..... (P1330212M)
**RFS511SW2A** ..... (P1330223M)
**UCS11MA**..... (P1330228M)
**UFS11EA**..... (P1330230M)
**URCS511A** ..... (P1330226M)
**URS511MB**..... (P1330224M)
**URS511P**..... (P1330225M)
**US11EA**..... (P1330229M)



Amana®

MENUMASTER®
COMMERCIAL MICROWAVE OVEN

1100 Watt 50 Hz – 1
March 2005

www.amanacommercial.com

# International Commercial Microwave-Technical Information

## 230/240 V, 50 Hz Models

| | | | |
|---|---|---|---|
| **DECS11MA** | **P1330217M** | **DES11EA** | **P1330218M** |
| **DFS11EA** | **P1330220M** | **RCS511A** | **P1330214M** |
| **RS511MB** | **P1330211M** | **RS511P** | **P1330212M** |
| **RFS511SW2A** | **P1330223M** | **UCS11MA** | **P1330228M** |
| **UFS11EA** | **P1330230M** | **URCS511A** | **P1330226M** |
| **URS511MB** | **P1330224M** | **URS511P** | **P1330225M** |
| **US11EA** | **P1330229M** | | |

- Due to possibility of personal injury or property damage, always contact an authorized technician for servicing or repair of this unit.
- Refer to Service Manual 16025963 for installation, operating, testing, troubleshooting, and disassembly instruction.

**⚠ CAUTION**

All safety information must be followed as provided in Service Manual 16025963.

**⚠ WARNING**

To avoid the risk of electrical shock, personal injury or death, disconnect power to oven and discharge capacitor before servicing, unless testing requires it.

| **Models** | **DECS11MA, DES11EA, DFS11EA, RCS511A, RS511MB, RS511P, RFS511SW2A** | **UCS11MA, UFS11EA, URCS511A, URS511MB, URS511P, US11EA** |
|---|---|---|
| **Power Source** | | |
| Voltage AC | 230 VAC | 240 VAC |
| Amperage (Single Unit) | 16 A | 13 A |
| Frequency | 50 Hz | 50 Hz |
| Single Phase, 3 wire grounded | X | X |
| Plug | CEE 7/7 Schuko; 16A | BS 1363A; 13A |
| **Power Output** | | |
| Nominal microwave energy (IEC705) | 1100 Watts | 1100 Watts |
| Minimum temperature rise (ΔT) | 11ºF / 5.5ºC | 11ºF / 5.5ºC |
| Operating Frequency | 2450 MHz | 2450 MHz |
| **Power Consumption** | | |
| Cook Condition Microwave | 1900 Watts / 8.3 Amps | 1900 Watts / 8.3 Amps |
| **Dimensions** | | |
| **Cabinet** | | |
| Width | 21 3/4" 55 cm | 21 3/4" 55 cm |
| Height | 14 1/4" 36.2 cm | 14 1/4" 36.2 cm |
| Depth | 20 1/4" 51.4 cm | 20 1/4" 51.4 cm |
| **Oven Interior** | | |
| Width | 14 1/4" 36.2 cm | 14 1/4" 36.2 cm |
| Height | 9" 22.6 cm | 9" 22.6 cm |
| Depth | 16 3/8" 41.6 cm | 16 3/8" 41.6 cm |
| **Weight** | | |
| Crated | 56 lbs. 25 kg | 56 lbs. 25 kg |
| Uncrated | 50 lbs. 23 kg | 50 lbs. 23 kg |

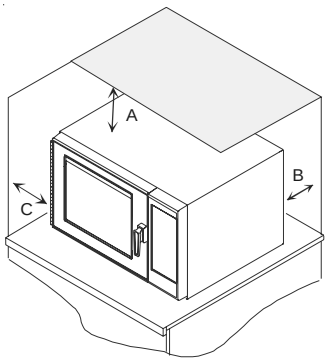
# Quick Start Reference Guide

*Refer to Product Safety Manual for Safety Statements*

Complete Owner's Manual available online

## CLEAN FILTER

This oven displays CLEAN FILTER at user defined intervals. When the message displays Amana recommends cleaning the air filter thoroughly. **Cleaning the air filter will not shut off the message.** The message will stop displaying automatically after 24 hours. Depending on microwave use and environmental conditions, the filter may need to be cleaned more frequently. Once the frequency is determined, set the option for the appropriate time frame.




### Oven Wall Clearances

A—For North American (UL/CSA) models, allow at least 2" (5.1 cm) of clearance around top of oven. For International (50 Hz) models, allow at least 12" (30 cm) of clearance around top of oven. Proper air flow around oven cools electrical components. With restricted air flow, oven may not operate properly and life of electrical parts is reduced.

B—Allow at least 2" (5.1 cm) between air discharge on back of oven and back wall.

C—Allow at least 2" (5.1 cm) of clearance around sides of oven.

## *So...how do I use it?* *(Electronic Control)*

### 7 Preprogrammed Pads

To cook food using preprogrammed cooking sequences:

1. Open oven door and place food in oven. Close door.
2. Press desired pad.
3. Oven begins to cook.
4. At end of cooking cycle oven beeps and shuts off.

### QTY 2X Programming *(some models)*

To change the cooking factor:

1. Open oven door.
2. Press and hold pad 1 for approximately 5 seconds.
3. Press pad to be reprogrammed.
4. Press the QTY 2X pad.
5. Press a numbered pad to change the cooking factor.
   - Cooking factor can be set from 10% to 100%.
   - Default is 80%.
   - Pad 5 would change the cooking factor to 50%.
6. Press START pad to save changes.

### Manual Operation

To cook food using a specific entered time and power level:

1. Open oven door and place food in oven. Close door.
2. Press TIME ENTRY pad and enter cooking time.
3. Press a power level pad to change power level if desired (some models).
   - COOK LEVEL displays with the power setting.
4. If stage cooking is desired, press TIME ENTRY pad and repeat steps 2 through 4, (some models).
5. Press START pad.
6. At end of cooking cycle oven beeps and shuts off.

### Programming Items

1. Open oven door.
2. Press and hold pad 1 for approximately 5 seconds.
3. Press pad to be reprogrammed.
4. Enter cooking time by using the number pads.
5. Press a power level pad to change power level if desired.
6. If stage cooking is desired, press TIME ENTRY pad.
   - Display briefly shows the stage number.
   - Display changes to cook time and power level for the next stage.
7. Enter cook time and power level as in steps 4 and 5 (some models).
   - To enter another cooking stage for that pad, press TIME ENTRY pad again.
   - Up to four different stages can be programmed (some models).
8. Press START pad to set new programming changes to the pad.

**NOTE:** To discard changes, press STOP/RESET pad or close oven door.

### QTY 2X Pad **(some models)**

1. Open oven door and place food in oven. Close door.
2. Press QTY 2X pad.
3. Press desired preprogrammed pad or pad sequence.
4. Oven begins cooking. Displayed cooking time is the total of original cooking time and added 2X time.

The switching operation of this microwave oven can cause voltage fluctuations on the supply line. The operation of this oven under unfavorable voltage supply conditions can have adverse effects. This device is intended for the connection to a power supply system with a maximum permissible system impedance Zmax of **0.2 Ohms** at the interface point of the user's supply. The user has to ensure that this device is connected only to a power supply system which fulfills the requirement above. If necessary, the user can ask the public power supply company for the system impedance at the interface point.

# *Quick Start Reference Guide*

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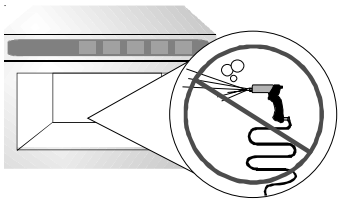
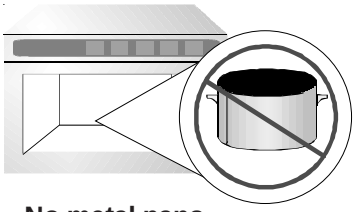


**DO NOT power spray**



**No metal pans**

## Can I change an option?

Options such as single or double pad programming, beep volume, and maximum cooking time can be changed to suit individual preferences.

To change options:

1. Open oven door.
   - If door is closed or RESET pad is pressed before programming is complete, changes are discarded and microwave exits programming mode.
2. Press and hold pad 2 for approximately 5 seconds.
   - This begins options mode.
   - Microwave will beep and OP: displays.
3. Press number pad that controls option to be changed.
   - See table below for options.
   - Current option will display.
4. Press number pad again to change the option.
   - Each time pad is pressed, option will change.
   - Match code displayed with code for desired option.
5. Press START pad to save changes.
   - To change additional options, repeat steps 3 and 4.
   - Changes appear after door is closed or STOP/RESET pad is pressed.

| Numbered Pads | Display | Options (Factory Settings in Bold) |
|---|---|---|
| **1** | **OP:10** | **3 second beep.** |
| **End of Cycle Beep** | OP:11 | Continuous beep until door is opened. |
| | OP:12 | 5 beep bursts until door is opened. |
| **2** | OP:20 | Eliminates beep. |
| **Speaker Volume** | OP:21 | Sets volume to low. |
| | OP:22 | Sets volume to medium. |
| | **OP:23** | **Sets volume to high.** |
| **3** | OP:30 | Prevents beep when pad is pressed. |
| **Key Beep** | **OP:31** | **Allows beep when pad is pressed.** |
| **4** | OP:40 | 15 seconds after oven door is opened, keyboard disabled. |
| **Keyboard Enable Window** | OP:41 | 30 seconds after oven door is opened, keyboard disabled. |
| | **OP:42** | **1 minute after oven door is opened, keyboard disabled.** |
| | OP:43 | 2 minutes after oven door is opened, keyboard disabled. |
| **5** | OP:50 | Prevents adding heating time while oven is heating. |
| **Add Time During Heating** | **OP:51** | **Allows heating time to be changed while oven is heating when a memory pad is pressed.** |
| **6** | **OP:60** | **Allows oven to resume heating time countdown after door is opened during cycle.** |
| **Reset Door Open** | OP:61 | Cancels heating time count down after door is opened during cycle. |
| **7** | **OP:70** | **Allows 60 minutes of heating time (some models).** |
| **(some models)** | OP:71 | Allows 10 minutes of heating time. |
| **Maximum Heating Time** | | |
| **8** | OP:80 | Allows use of preprogrammed pads only. |
| **Manual Operation** | **OP:81** | **Allows use of manual time entry and preprogrammed pads.** |
| **9** | **OP:90** | **Allows 10 (0-9) preprogrammed pads.** |
| **(some models)** | OP:91 | Allows 100 (00-99) preprogrammed pads. |
| **Double Digit Operation** | | |
| **0** | OP:00 | Do not display message. |
| **Clean Filter Message** | **OP:01** | **Display message for 24 hours every 7 days.** |
| | OP:02 | Display message for 24 hours every 30 days. |
| | OP:03 | Display message for 24 hours every 90 days. |

Part No.12804405
Revised 10/04

Amana WaveLink™

For full product documentation visit:
www.amanacommercial.com/wavelink

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# Quick Start Reference Guide

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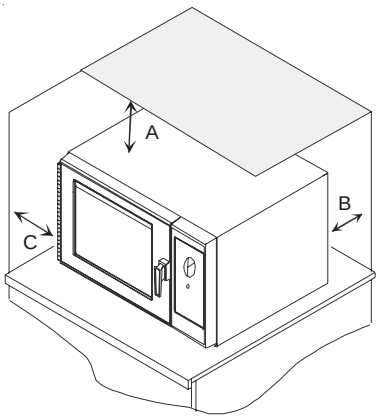
The switching operation of this microwave oven can cause voltage fluctuations on the supply line. The operation of this oven under unfavorable voltage supply conditions can have adverse effects. This device is intended for the connection to a power supply system with a maximum permissible system impedance Zmax of **0.2 Ohms** at the interface point of the user's supply. The user has to ensure that this device is connected only to a power supply system which fulfills the requirement above. If necessary, the user can ask the public power supply company for the system impedance at the interface point.

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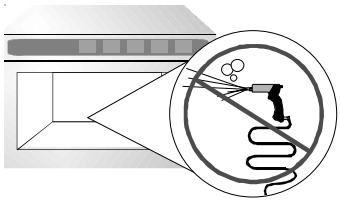
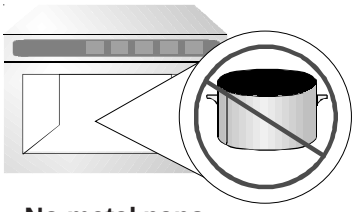
B—Allow at least 2" (5.1 cm) between air discharge on back of oven and back wall.

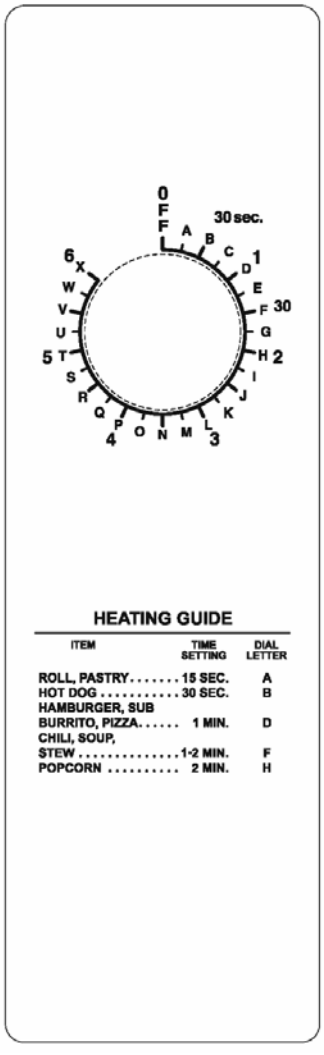
C—Allow at least 2" (5.1 cm) of clearance around sides of oven.



**DO NOT power spray**



**No metal pans**




**HEATING GUIDE**

| ITEM | TIME SETTING | DIAL LETTER |
|---|---|---|
| ROLL, PASTRY | 15 SEC. | A |
| HOT DOG | 30 SEC. | B |
| HAMBURGER, SUB | | |
| BURRITO, PIZZA | 1 MIN. | D |
| CHILI, SOUP, STEW | 1-2 MIN. | F |
| POPCORN | 2 MIN. | H |

## *So...how do I use it?* *(Mechanical Dial)*

### Heating

1. Open oven door, place food in oven, and close oven door.
2. Turn time entry knob clockwise to desired time.
   - Cooking time can be set up to 6 minutes.
   - Oven begins operation and time counts down.
3. When cooking time has elapsed, microwave energy stops and oven signal sounds.

### Interrupting Operation

Open oven door to interrupt operation or turn time entry knob counterclockwise to "0".

To resume microwave oven operation, close door and turn knob.

### Changing Time and Canceling Mistakes

Heating time can be changed at any time while the oven is operating. Turn knob to desired new setting. To set cooking time to zero, turn knob counterclockwise to "0".

Part No.12804404
Revised 10/04

For full product documentation visit:
www.amanacommercial.com/wavelink

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# Quick Start Reference Guide

*Refer to Product Safety Manual for Safety Statements*

Complete Owner's Manual available online

## *So...how do I use it?* *(Digital Dial)*

### Heating

1. Open oven door, place food in oven, and close oven door.
2. Turn time entry knob clockwise until desired time displays.
   - Factory default setting for cooking time is 10 minutes. Cooking time can be changed and set to 60 minutes. (Refer to section on changing options)
3. Press a power level pad to change power level, if desired. If no power level is selected, unit will default to 100%.
   - Power level can be set from full power (100%), to 70%, 50% or DEFROST (20%).
4. Press **START** button.
   - Oven begins operation and time counts down.
5. When cooking time has elapsed, microwave energy stops and oven signal sounds.

### Interrupting Operation

Open oven door to interrupt operation or turn time entry knob counterclockwise to "0".

To resume microwave oven operation, close door and press **START** .
If time was changed to "0", time will need to be reset, and then press **START**.

### Changing Time and Power/Canceling Mistakes

Heating time and power level can be changed at any time while the oven is operating. Turn knob to desired new setting. To set cooking time to zero, turn knob counterclockwise to "0".

### :30 QUICK SET Pad

:30 QUICK SET

Allows you to reheat for 30 seconds at 100% (full) power by simply pressing the :30 QUICK SET pad. By repeatedly pressing this pad, you can extend the reheating time to 5 minutes by 30 second increments. To change the time assigned to this pad:

1. Open oven door.
   - If door is closed before programming is complete, changes are discarded.
2. Press and hold the :30 QUICK SET pad for approximately 5 seconds.
   - This activates the programming mode.
   - Microwave will beep and either current or assigned time will show in display.
3. Turn Dial to change time setting.
   - Time can be set from zero (0:00) seconds to five minutes (5:00).
   - If the assigned time is 0:00, the :30 QUICK SET pad is effectively disabled.
4. Press START pad to save changes.

### Can I change an option?

Options can be changed to suit individual preferences.

To change options:

1. Open oven door.
   - If door is closed before programming is complete, changes are discarded and microwave exits options programming mode.
2. Press and hold the Hidden Pad for approximately 5 seconds.
   - This begins options programming mode.
   - Microwave will beep and OP:-- appears in display.
3. Press the Hidden Pad to advance to the desired option to be changed.
   - See table below for options.
4. Turn Dial to change option setting.
   - OP: and option number appear in display.
   - See table below for options.
5. Press START pad to save changes.
   - To change additional options, repeat steps 2 - 5.
   - Changes appear after door is closed.

| Numbered Pads | Display | Options (Factory Settings in Bold) |
|---|---|---|
| **1** | **OP:10** | **3 second continuous beep.** |
| **End of Cycle Beep** | OP:11 | Continuous beep until door is opened. |
| | OP:12 | 5 beep bursts until door is opened. |
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| **0** | OP:00 | Do not display message. |
| **Clean Filter Message** | **OP:01** | **Display message for 24 hours every 7 days.** |
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| | OP:03 | Display message for 24 hours every 90 days. |

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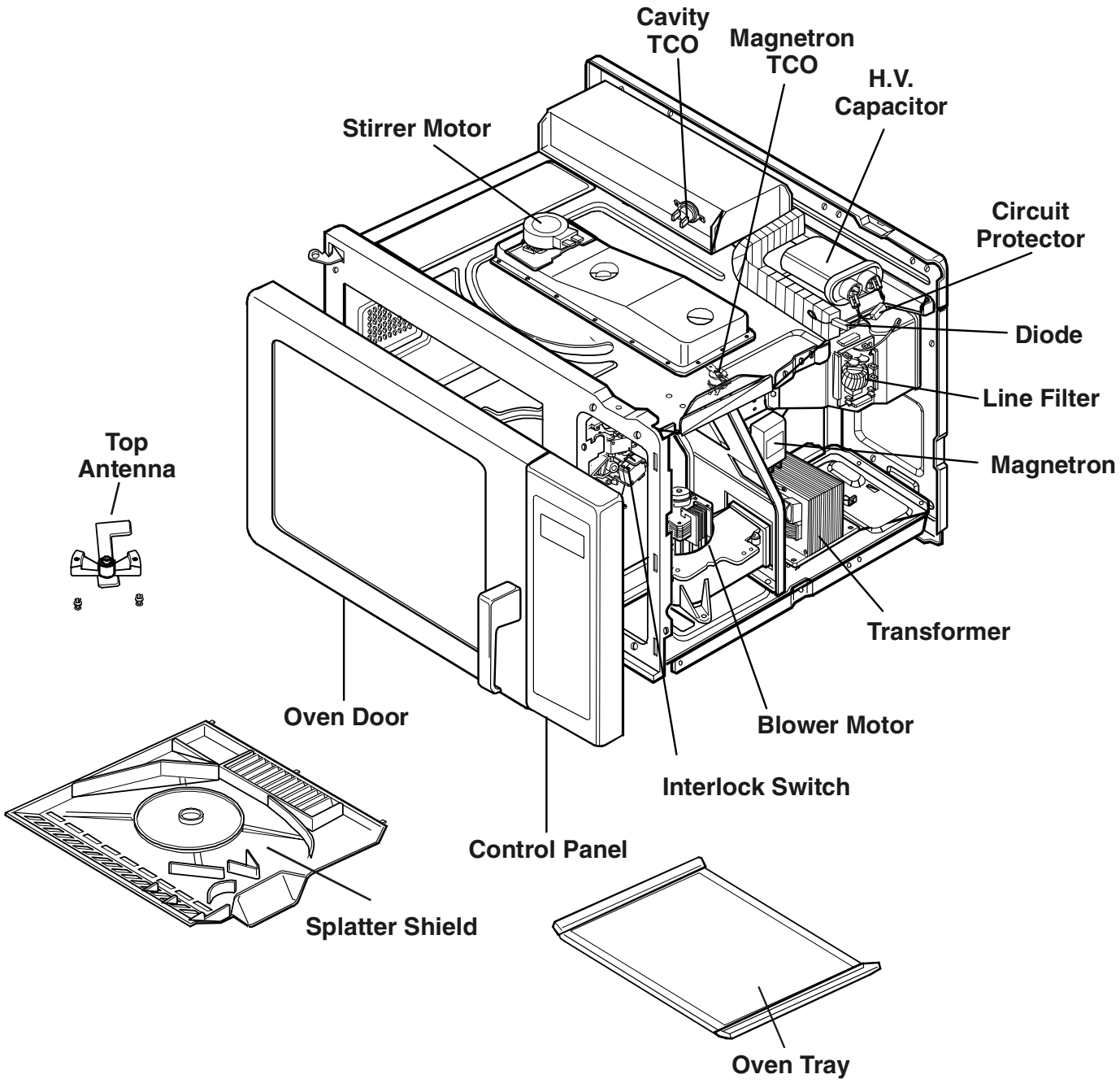
# Disassembly Procedures

**⚠ WARNING**

To avoid the risk of electrical shock, personal injury, or death, disconnect power to oven and discharge the capacitors before following any disassembly procedures.



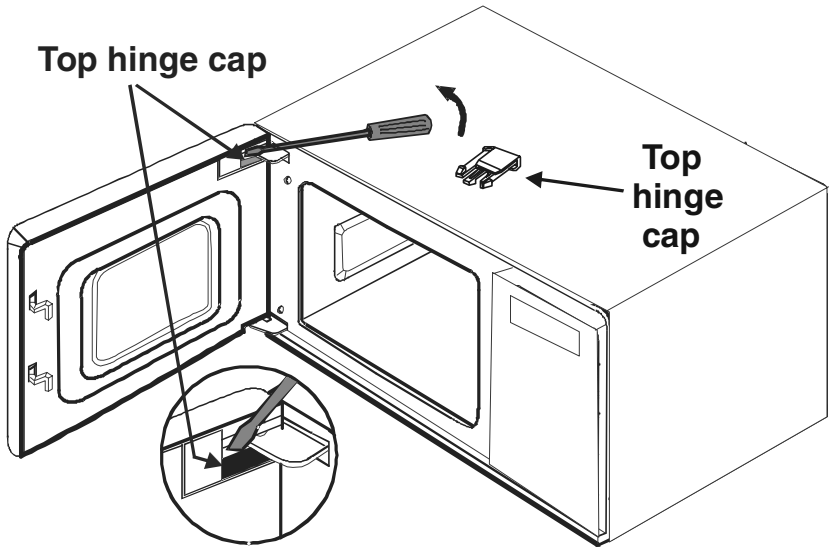
# Disassembly Procedures

**WARNING**

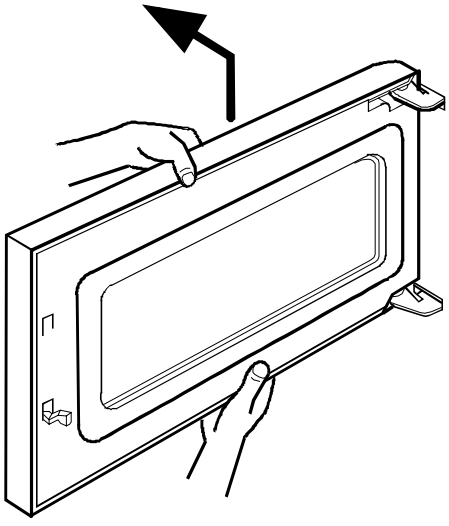
To avoid the risk of electrical shock, personal injury, or death, disconnect power to oven and discharge the capacitors before following any disassembly procedures.

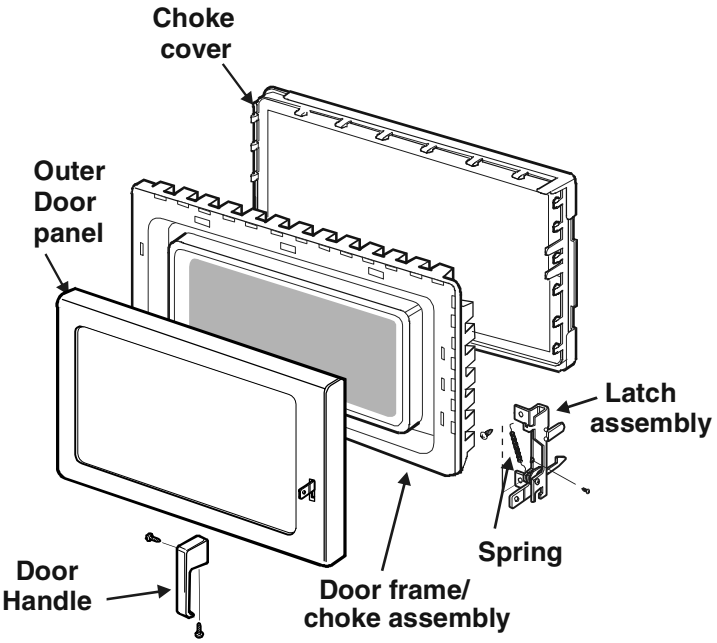
**Door Removal**

1. Disconnect power to oven.
2. Open oven door, remove top hinge cap, and slowly lift door to disengage the hinge pins at top and bottom.




3. To reinstall door, place top pin into slot first, then align bottom pin.
4. Reinstall top hinge cap.






*** Tighten side screw first and apply Loctite**

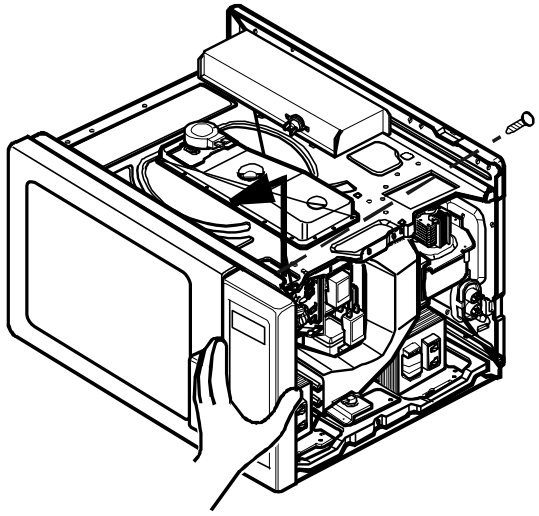
# Disassembly Procedures

**⚠ WARNING**

To avoid the risk of electrical shock, personal injury, or death, disconnect power to oven and discharge the capacitors before following any disassembly procedures.

## Control Panel Removal

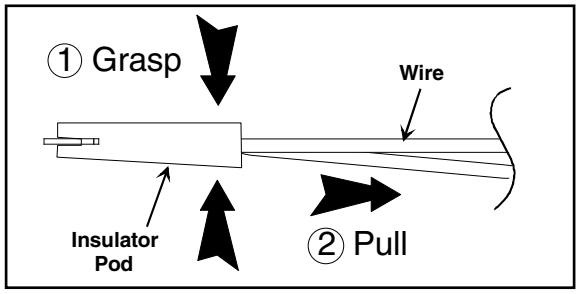
1. Disconnect power to oven and remove outer case.
2. Disconnect and label wires from controller/timer.
3. Open oven door.
4. Remove screw securing top of control panel to cavity. Lift control panel up and out to release tabs.



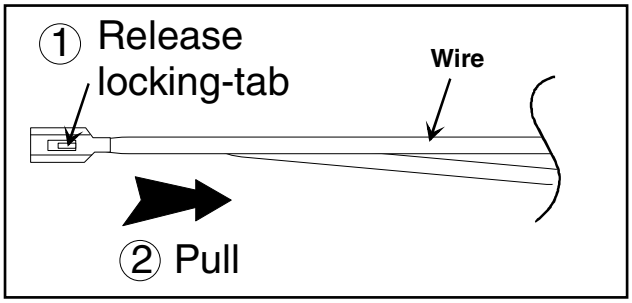
## Disconnecting Wire Terminals

All wire terminals are locking-type terminals.
Proceed as follows to disconnect wire terminals:

**Insulated terminals:**
Grasp insulator pod and pull back. **DO NOT PULL ON WIRE.**




**Non-insulated terminals:**
Use a small blade screwdriver to depress locking-tab and pull on terminal. **DO NOT PULL ON WIRE.**

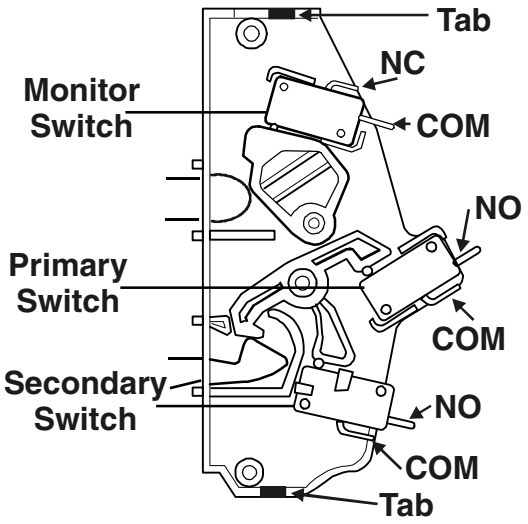


# Disassembly Procedures

**⚠ WARNING**

To avoid the risk of electrical shock, personal injury, or death, disconnect power to oven and discharge the capacitors before following any disassembly procedures.

**Interlock Switch**




**NOTE:** After repairing the door or the interlock system, it is necessary to check the switch continuity before operating the oven.

## Adjusting Interlocks

The interlock monitor, primary, and secondary switches act as a final safety switch, protecting the operator from microwave energy. After adjusting the interlock switch assembly, verify wires are correctly connected.

For door fit and switch operation, switch bracket is adjustable.

1. Disconnect power to oven and remove outer case, (see "Outer Case" procedure).
2. Loosen switch bracket mounting screws.
3. Close oven door, move switch bracket toward rear of oven until door gap is less than $^{1}/_{64}$–inch (0.5 mm).
4. Hold switch bracket securely for proper switch operation and door fit, retighten screws.
5. Open oven door slowly, watching the switches. Verify switches release in the following order.
   - Primary interlock switch
   - Secondary interlock switch
   - Interlock monitor switch

**NOTE:** Adjust the switch bracket until all switches operate in proper sequence.

6. Close the oven door slowly, watching the switches. Verify switches activate in the following order.
   - Interlock monitor switch
   - Secondary interlock switch
   - Primary interlock switch
7. When proper switch sequence has been achieved, tighten the switch bracket securely.

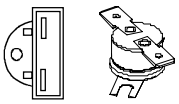
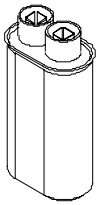
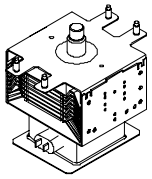
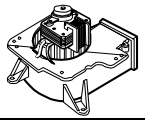
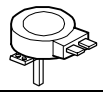
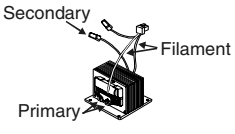
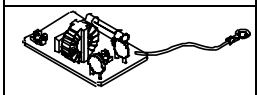
**⚠ CAUTION**

A microwave leakage test must be performed anytime a door assembly is removed, replaced, disassembled, or adjustment of switch bracket is performed.

# Component Testing Procedures

**⚠ WARNING**

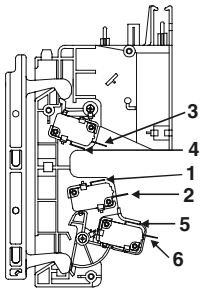
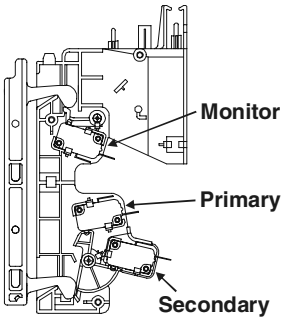
To avoid the risk of electrical shock, personal injury, or death, disconnect power to oven and discharge the capacitors before servicing, unless testing requires power.

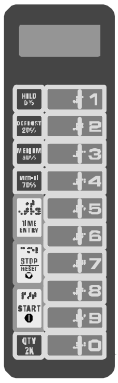
| Illustration | Component | Testing | Results |
|---|---|---|---|
|  | Thermal cutout | Disconnect all wires from TCO.<br>Measure resistance across terminals.<br>Cavity TCO .....<br><br>Magnetron TCO ..... | <br><br>Closed at 32°F (0°C) and Opens at 230°F (110°C)<br>Closed at 140°F (60°C) and Opens at 320°F (160°C) |
| | Diode | **Discharge Capacitor**<br><br>Remove diode lead from capacitor and connect ohmmeter.<br><br>Reverse leads for second test. | Infinite resistance should be measured in one direction and 50KΩ or more in the opposite direction.<br><br>**NOTE:** Ohmmeter must contain a battery of 6 volts minimum. |
| | Circuit Protector | **Discharge Capacitor**<br><br>Remove circuit protector leads from capacitor and connect ohmmeter.<br><br>Reverse leads for second test. | Infinite resistance should be measured in one direction and 50KΩ or more in the opposite direction.<br><br>**NOTE:** Ohmmeter must contain a battery of 6 volts minimum. |
|  | Capacitor | **Discharge Capacitor**<br><br>Remove wires from capacitor terminals and connect ohmmeter, set on highest resistance scale to terminals.<br><br>Also check between each terminal and capacitor case. | <br><br>Between Terminals: Meter should momentarily deflect towards zero then return to over 5 MΩ. If no deflection occurs, or if continuous deflection occurs, replace capacitor.<br><br>Terminal to Case: Infinite resistance |
|  | Magnetron | **Discharge Capacitor**<br><br>Remove wires from magnetron and connect ohmmeter to terminals. Also check between each terminal and ground. | Between Terminals: Less than 1 Ω<br><br>Each terminal to ground measures Infinite resistance.<br>**Note:** This test is not conclusive. If oven does not heat and all other components test good replace the magnetron and retest. |
|  | Blower motor | Remove all wires from motor.<br><br>Measure resistance across coil..... | <br><br>Approximately 72 – 82 Ω |
|  | Stirrer motor | Remove all wires from motor.<br><br>Measure resistance across terminals..... | <br><br>Approximately 12.8 – 13.5 KΩ |
|  | Transformer | **Discharge Capacitor**<br>Remove all wires from terminals.<br><br>Measure resistance from:<br>Primary.....<br>Filament .....<br>Secondary to Ground screw on transformer stack..... | <br><br><br><br>Less than <3 Ω<br>Less than <1 Ω<br><br>Approximately 110 – 125 Ω |
|  | Noise filter board | Power In terminals .....<br>Power Out terminals ..... | 230 / 240 VAC<br>230 / 240 VAC<br>If no power in, check power outlet.<br>If no power out, check fuses. |

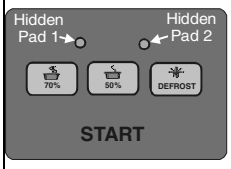
# Component Testing Procedures

**WARNING**

To avoid the risk of electrical shock, personal injury, or death, disconnect power to oven and discharge the capacitors before servicing, unless testing requires power.

| Illustration | Component | Testing | Results |
|---|---|---|---|
|  | Interlock switch assembly<br>  | Disconnect wires to switch.<br><br>With door open measure resistance from:<br>Monitor - Terminal 3 - 4.....<br>Primary - Terminal 1 - 2 .....<br>Secondary - Terminal 5 - 6.....<br><br>With door closed measure resistance from:<br>Monitor - Terminal 3 - 4.....<br>Primary - Terminal 1 - 2 .....<br>Secondary - Terminal 5 - 6.....<br><br>**After verifying or replacing the module, reconnect wires to switch and check operation of monitor circuit before operating the oven.** | <br><br><br>Indicates continuity<br>Infinite Ω<br>Infinite Ω<br><br><br>Infinite Ω<br>Indicates continuity<br>Indicates continuity |
| | Lamp receptacle | Test continuity of receptacle terminals. | Indicates continuity with bulb installed. |
| | Wire Harness | Test continuity of wires | Indicates continuity |

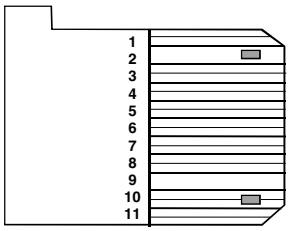
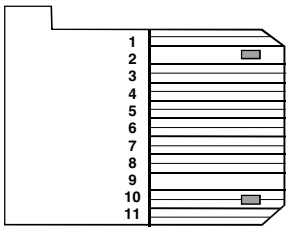
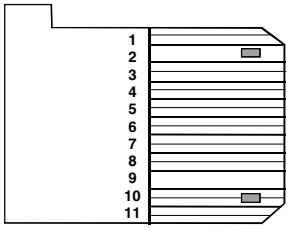
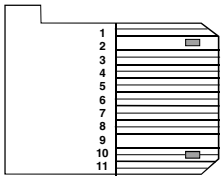
| Electronic Control Panel | | | |
|---|---|---|---|
|  | **Service Test Mode:** | **Open door, Press and Hold pad 3 for 5 seconds to enter service test mode.**<br>Press Pad 1 .....<br><br>Press Pad 2 .....<br><br><br>Press Pad 3 .....<br>Press Pad 4 .....<br><br>Press Pad 5 .....<br>Press Pad 6 .....<br>Press Pad 7 .....<br>Press Pad 8 .....<br>Press Pad 9 .....<br>Press Pad 0 .....<br>Stop/Reset Pad..... | SERVICE appears in the display<br><br>Indicates number of hours magnetron has been turned on<br>Indicates number of times magnetron tube has cycled<br>Indicates number of door cycles<br>CLEAR (Press START pad to reset service data.)<br>Indicates amperage<br>N/A<br>N/A<br>N/A<br>N/A<br>N/A<br>Exit Service Test Mode |
| | **Error codes:** | **E-08** .....<br>**E-09** .....<br>**E-10** ..... | Replace Control Board<br>Replace Control Board<br>Shorted or Open Keypad – Test and replace if necessary |

| Electronic Dial Control Panel | | | |
|---|---|---|---|
|  | **Service Test Mode:** | **Open door, Press and Hold Hidden Pad 2 for 5 seconds to enter service test mode.**<br>Press Hidden Pad 2 .....<br>Press Hidden Pad 2 again .....<br><br>Press Hidden Pad 2 again .....<br>Press Hidden Pad 2 again .....<br>Press Hidden Pad 2 again .....<br>Press Hidden Pad 2 again ..... | <br><br>**Enters into Service Test Mode**<br>Indicates number of magnetron hours<br>Indicates magnetron tube cycles<br>Indicates number of door cycles<br>Indicates amperage<br>Turn dial to Clear Info – When dial is rotated display indicates CLEARED INFO |

# Component Testing Procedures

**WARNING**

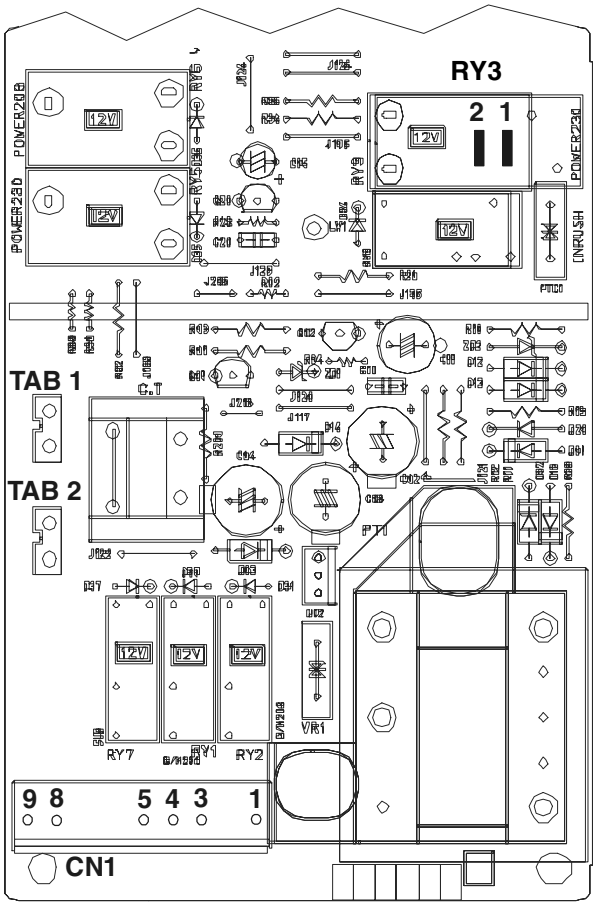
To avoid the risk of electrical shock, personal injury, or death, disconnect power to oven and discharge the capacitors before servicing, unless testing requires power.

| Illustration | Component | Testing | Results | | |
|---|---|---|---|---|---|
| Electronic Control<br><br>RS511P<br>URS511P | Keyboard assembly<br>  | Continuity is indicated as 100 Ω and below. | **Pad**<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>HOLD (0%)<br>DEFROST (20%)<br>MEDIUM (50%)<br>MED-HI (70%)<br>TIME ENTRY<br>STOP/RESET<br>START | **Trace**<br>1 & 8<br>2 & 8<br>3 & 8<br>4 & 8<br>5 & 8<br>6 & 8<br>7 & 8<br>1& 9<br>2 & 9<br>3 & 8<br>1 & 10<br>2 & 10<br>3 & 10<br>4 & 10<br>5 & 10<br>6 & 10<br>7 & 10 | **Measurement**<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity |
| Electronic Control<br><br>DFS11EA<br>RCS511A<br>UFS11EA<br>URCS511A | Keyboard assembly<br>  | Continuity is indicated as 100 Ω and below. | **Pad**<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>QTY 2X<br>HOLD (0%)<br>DEFROST (20%)<br>MEDIUM (50%)<br>MED-HI (70%)<br>TIME ENTRY<br>STOP/RESET<br>START | **Trace**<br>1 & 8<br>2 & 8<br>3 & 8<br>4 & 8<br>5 & 8<br>6 & 8<br>7 & 8<br>1& 9<br>2 & 9<br>3 & 8<br>7 & 9<br>1 & 10<br>2 & 10<br>3 & 10<br>4 & 10<br>5 & 10<br>6 & 10<br>7 & 10 | **Measurement**<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity |
| Electronic Control<br><br>DES11EA<br>US11EA | Keyboard assembly<br>  | Continuity is indicated as 100 Ω and below. | **Pad**<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>TIME ENTRY<br>STOP/RESET<br>START | **Trace**<br>1 & 8<br>2 & 8<br>3 & 8<br>4 & 8<br>5 & 8<br>6 & 8<br>7 & 8<br>1& 9<br>2 & 9<br>3 & 8<br>5 & 10<br>6 & 10<br>7 & 10 | **Measurement**<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity |
| Dial Control<br><br>DECS11MA<br>RCS511MB<br>UCS11MA<br>URS511MB | Keyboard assembly<br>  | Continuity is indicated as 100 Ω and below. | **Pad**<br>30 QUICK SET<br>HIDDEN #1<br>HIDDEN #2<br>DEFROST (20%)<br>MEDIUM (50%)<br>MED-HI (70%)<br>TIME ENTRY<br>STOP/RESET<br>START | **Trace**<br>1 & 8<br>2 & 8<br>3 & 8<br>2 & 10<br>3 & 10<br>4 & 10<br>5 & 10<br>6 & 10<br>7 & 10 | **Measurement**<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity<br>Continuity |

# Component Testing Procedures

## ⚠ WARNING

To avoid the risk of electrical shock, personal injury, or death, disconnect power to oven and discharge the capacitors before servicing, unless testing requires power.




| Function | Test Set-Up / Condition | Meter Setting | Probe Placement | Results |
|---|---|---|---|---|
| Control power transformer input | All Conditions | Volts | CN1 – Pin 3 to Pin 1 (White to Black) | 230/240 VAC |
| Current transformer input | All Conditions | Volts | Tab 1 to Power Cord Blue (Neutral) | 230/240VAC |
| Current transformer output | All Conditions | Volts | Tab 2 to Power Cord Blue (Neutral) | 230/240VAC |
| Oven light relay RY7 | Standby.....<br>Ready .....<br>Cook ..... | Volts<br>Volts<br>Volts | CN1 – Pin 4 to Pin 1 (Yellow to Black) .<br>CN1 – Pin 4 to Pin 1 .....<br>CN1 – Pin 4 to Pin 1 ..... | 0 VAC<br>230/240VAC<br>230/240VAC |
| Blower / Stirrer motor relay RY1 | Standby.....<br>Ready .....<br>Cook ..... | Volts<br>Volts<br>Volts | CN1 – Pin 5 to Pin 3 (Brown to White) .<br>CN1 – Pin 5 to Pin 3 .....<br>CN1 – Pin 5 to Pin 3 ..... | 230/240VAC<br>0 VAC<br>0 VAC |
| Secondary Interlock Switch | Door Closed.....<br>Door Opened .... | Ohms<br>Ohms | CN1 – Pin 8 to Pin 9 (Pink to Green)....<br>CN1 – Pin 8 to Pin 9 ..... | < 1 Ω<br>Infinite |
| Cook relay RY3 | Standby.....<br>Ready .....<br>Cook ..... | Volts<br>Volts<br>Volts | Relay 3 – Pin 1 to Pin 2 .....<br>Relay 3 – Pin 1 to Pin 2 .....<br>Relay 3 – Pin 1 to Pin 2 ..... | 230/240VAC<br>230/240VAC<br>0 VAC |

# Troubleshooting Procedures

When you get a complaint from customers, evaluate the complaint carefully. If the following symptoms apply, instruct the customer in the proper use of the microwave oven. This can eliminate an unnecessary service call.

**⚠ CAUTION**

- Verify proper earthing before checking for trouble.
- Be careful of the high voltage circuit.
- Discharge the high voltage capacitor.
- When checking the continuity of the switches or the high voltage transformer, disconnect one lead wire from these parts and then check continuity with the AC plug removed. To do otherwise may result in a false reading or damage to your meter.
- Do not touch any part of the circuit on the controller, since static electric discharge may damage the control panel. Always touch yourself to earth while working on this panel to discharge any static charge built up in your body.

| Condition | Cause | Remedy |
|---|---|---|
| Microwave oven does not work. | • Inserting multiple plugs into one outlet and using them at the same time (blown fuse or breaker).<br>• Microwave oven plug is not inserted tightly. | • Avoid using other electrical appliances when you use the microwave oven.<br>• Insert microwave oven plug securely. |
| Output power is too low. | • Low AC input voltage.<br>• Food temperature is too low. | • Use the microwave oven at adequate line voltage.<br>• This may not be a defect. It is possible that the food should be cooked for a longer time period. |
| Sparks occur. | • Using metallic ware and allowing it to touch the oven wall.<br>• Ceramic ware trimmed in gold or silver is used. | • Do not use metallic ware for cooking.<br>• Do not use any type of cookware with metallic trimming. |
| Uneven cooking. | Inconsistent food thickness, inconsistent fat or moisture distribution within the food products. | • Use plastic wrap or lid.<br>• Stir once or twice while cooking soup, cocoa, milk, etc. |

# Troubleshooting Procedures

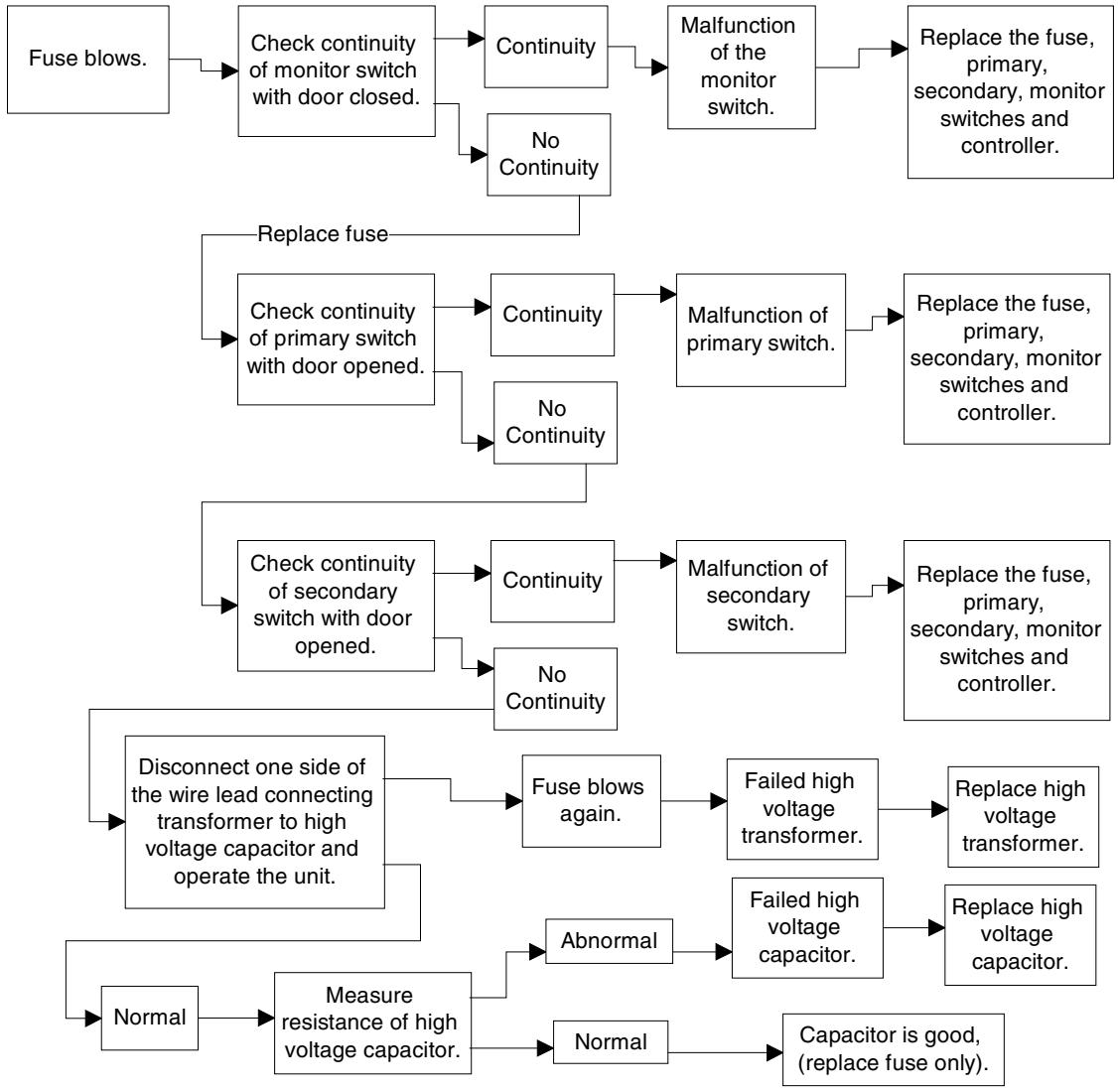
### Trouble 1: The following visual conditions indicate a probable failed control circuit.

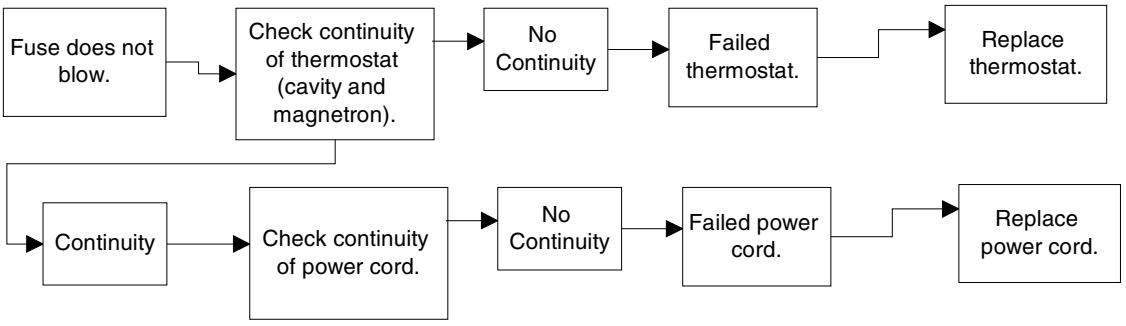
1. Incomplete segments.
   - Segment missing.
   - Partial segment missing.
   - Digit flickering (Note: Slight flickering is normal.)
2. Colon does not turn on or blink.
3. A distinct change in the brightness of one or more numbers in display.
4. One or more digits in the display are not lighting.
5. Display indicates a number different from one touched, for example, key in 5 and 3 appears in the display.
6. Specific numbers (for example 7 or 9) will not display when key pad is touched.
7. Display does not count down with time blinking or up with clock operation.
8. Display obviously jumps in time while counting down.
9. Display counts down too fast while cooking.
10. Each indicator light does not turn on after setting cooking cycle.
11. Display time of day does not reappear when cooking is finished.

| Condition | Check | Result | Cause | Remedy |
|---|---|---|---|---|
| No input can be programmed. | Check the connection between keypad and controller. | • Continuity<br>• No continuity | • Failed controller.<br>• Loose connection. | • Replace controller.<br>• Repair connection. |
| 1. Some inputs cannot be programmed.<br>2. Display shows a number or figure different from one touched.<br>3. Random programming when touching other pads.<br>4. Display is fixed at some figure and can not accept any input. | Test keypad (see Testing Procedure section). | • Results not as specified.<br><br>• Results are per specifications. | • Failed keypad.<br><br>• Failed controller. | • Replace keypad.<br><br>• Replace controller. |

# Troubleshooting Procedures

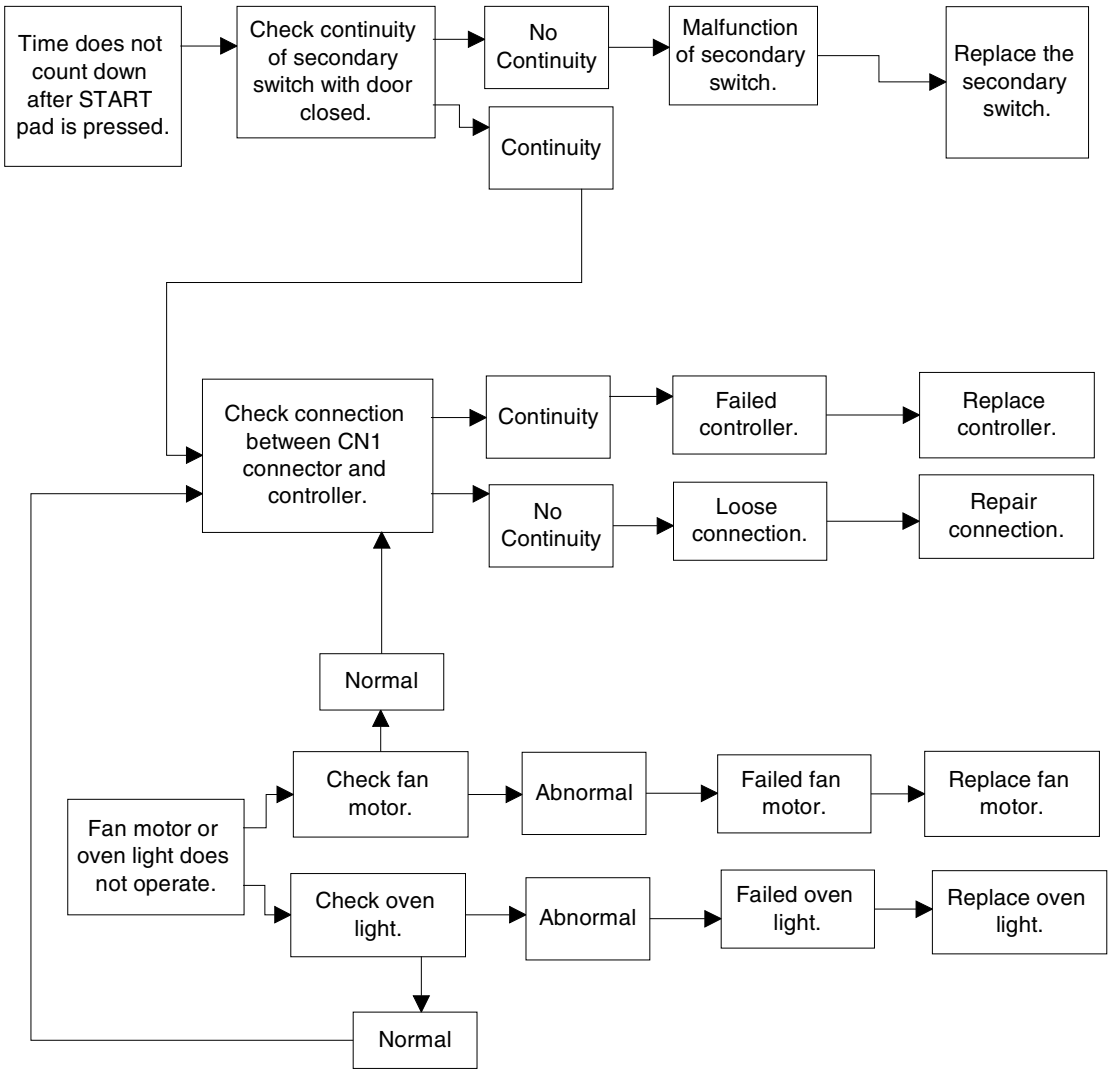
**Trouble 2: Oven does not operate at all, display window does not display any digits, and no input is accepted.**


Fuse blows.
Check continuity of monitor switch with door closed.
Continuity
Malfunction of the monitor switch.
Replace the fuse, primary, secondary, monitor switches and controller.
No Continuity
Replace fuse
Check continuity of primary switch with door opened.
Continuity
Malfunction of primary switch.
Replace the fuse, primary, secondary, monitor switches and controller.
No Continuity
Check continuity of secondary switch with door opened.
Continuity
Malfunction of secondary switch.
Replace the fuse, primary, secondary, monitor switches and controller.
No Continuity
Disconnect one side of the wire lead connecting transformer to high voltage capacitor and operate the unit.
Fuse blows again.
Failed high voltage transformer.
Replace high voltage transformer.
Abnormal
Failed high voltage capacitor.
Replace high voltage capacitor.
Normal
Measure resistance of high voltage capacitor.
Normal
Capacitor is good, (replace fuse only).



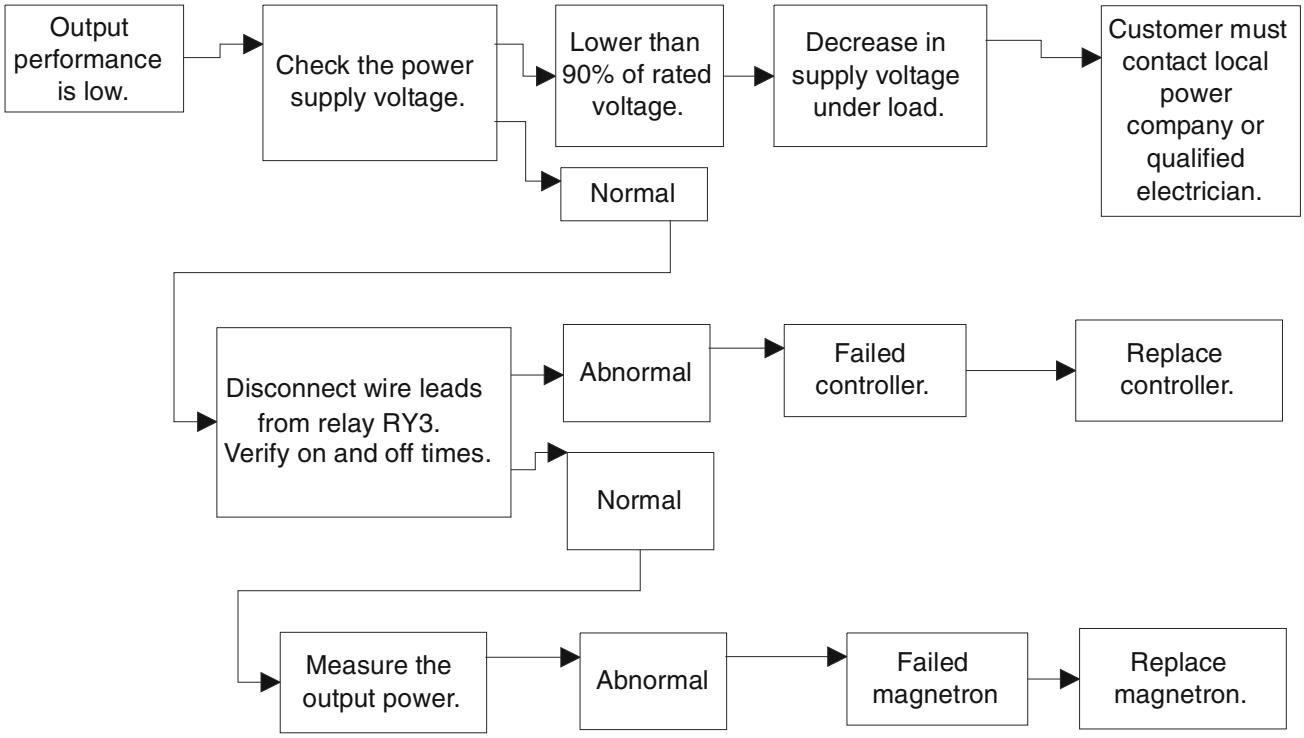
# Troubleshooting Procedures

## Trouble 3: Display shows all digits programmed, but does not start cooking when the START pad is pressed.



# Troubleshooting Procedures

### Trouble 4: Oven operates with little or no heat.



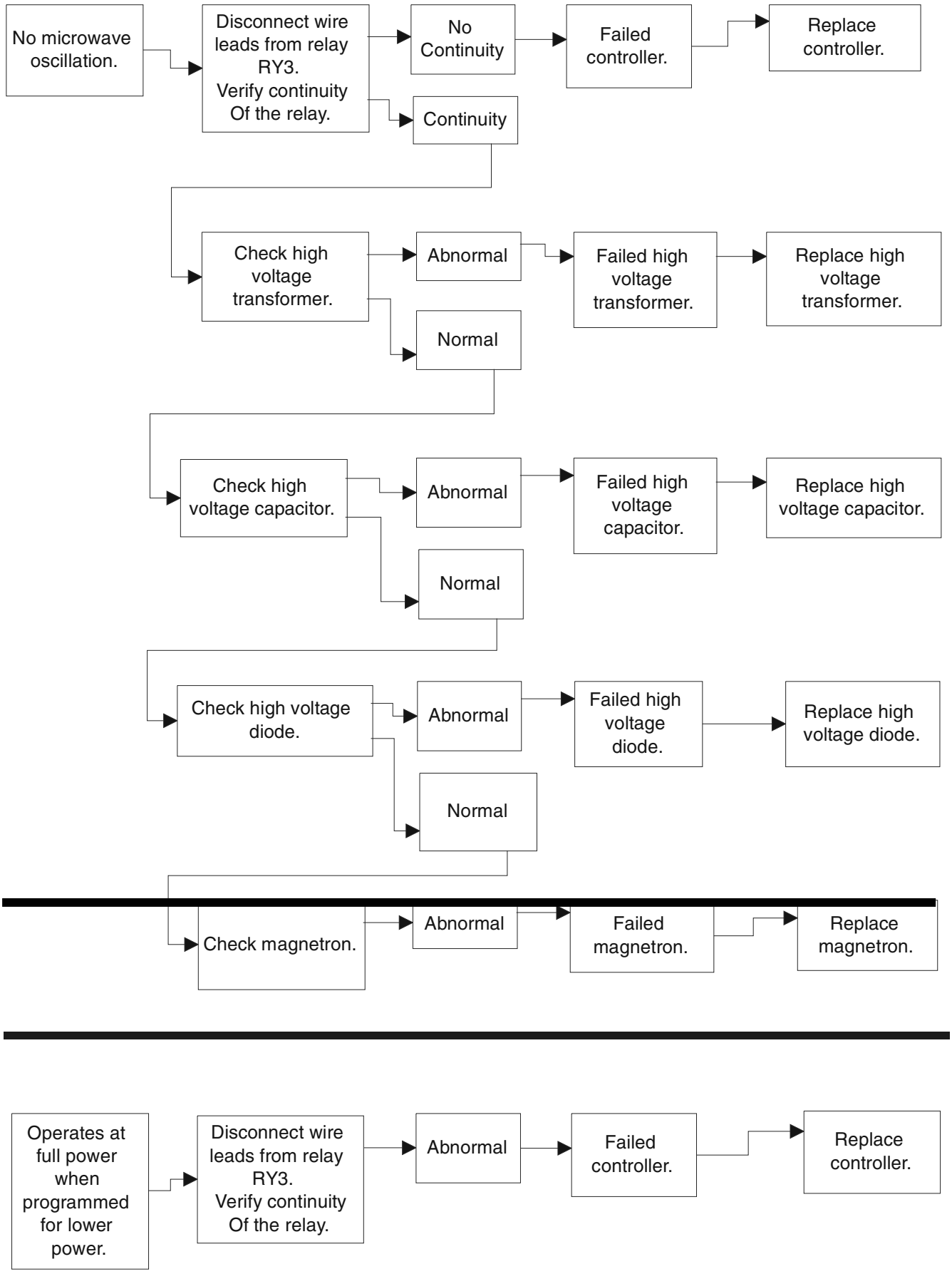

**NOTE:** Simple output power test can be conducted by heating one liter of water for 33 seconds. Refer to Power Test on page of this manual.

**Check for continuity of relay 3 with an omhmeter.**
(Remove wire leads from relay 3 and operate unit.)

| Power Level | Cycle ON | Cycle OFF |
|---|---|---|
| 1 | 3 sec. | 9 sec. |
| 2 | 4 sec. | 8 sec. |
| 3 | 5 sec. | 7 sec. |
| 4 | 6 sec. | 6 sec. |
| 5 | 7 sec. | 5 sec. |
| 6 | 8 sec. | 4 sec. |
| 7 | 9 sec. | 3 sec. |
| 8 | 10 sec. | 2 sec. |
| 9 | 11 sec. | 1 sec. |
| 10 | 12 sec. | 0 sec. |

# Troubleshooting Procedures

**Trouble 5: No microwave oscillation even when oven light and fan motor operate.**



# Testing Procedures

All Amana and Menumaster microwave oven power outputs are rated using the IEC705 standards. Using the IEC705 test method requires precision measurements and equipment that is not practical to be performed in the field. Using the test shown below will indicate if the oven performance is satisfactory.

### Test equipment required:

- 1000 ml test container and thermometer (Amana power test kit R0157397 Fahrenheit / Menumaster power test kit M95D5 Celsius).
- Digital watch / watch with a second hand for use on ovens with electromechanical timers.

### Important Notes:

- Low line voltage will cause low temperature rise / power output.
- Ovens must be on a dedicated circuit, properly grounded, and polarized. Other equipment on the same circuit may cause a low temperature rise / power output.
- This test and results are not a true IEC705 test procedure and are only intended to provide servicers with an easy means of determining if the microwave oven cooking output is correct.

## Procedure

1. Fill the test container to the 1000 ml line with cool tap water.

**NOTE:** Water temperature should be approximately 60°F / 16°C

2. Using the thermometer, stir water for five to ten seconds; measure, and record the temperature (T1).
3. Place test container of water in the center of oven cavity and close door.
4. Heat the water for a 33-second full power cycle.

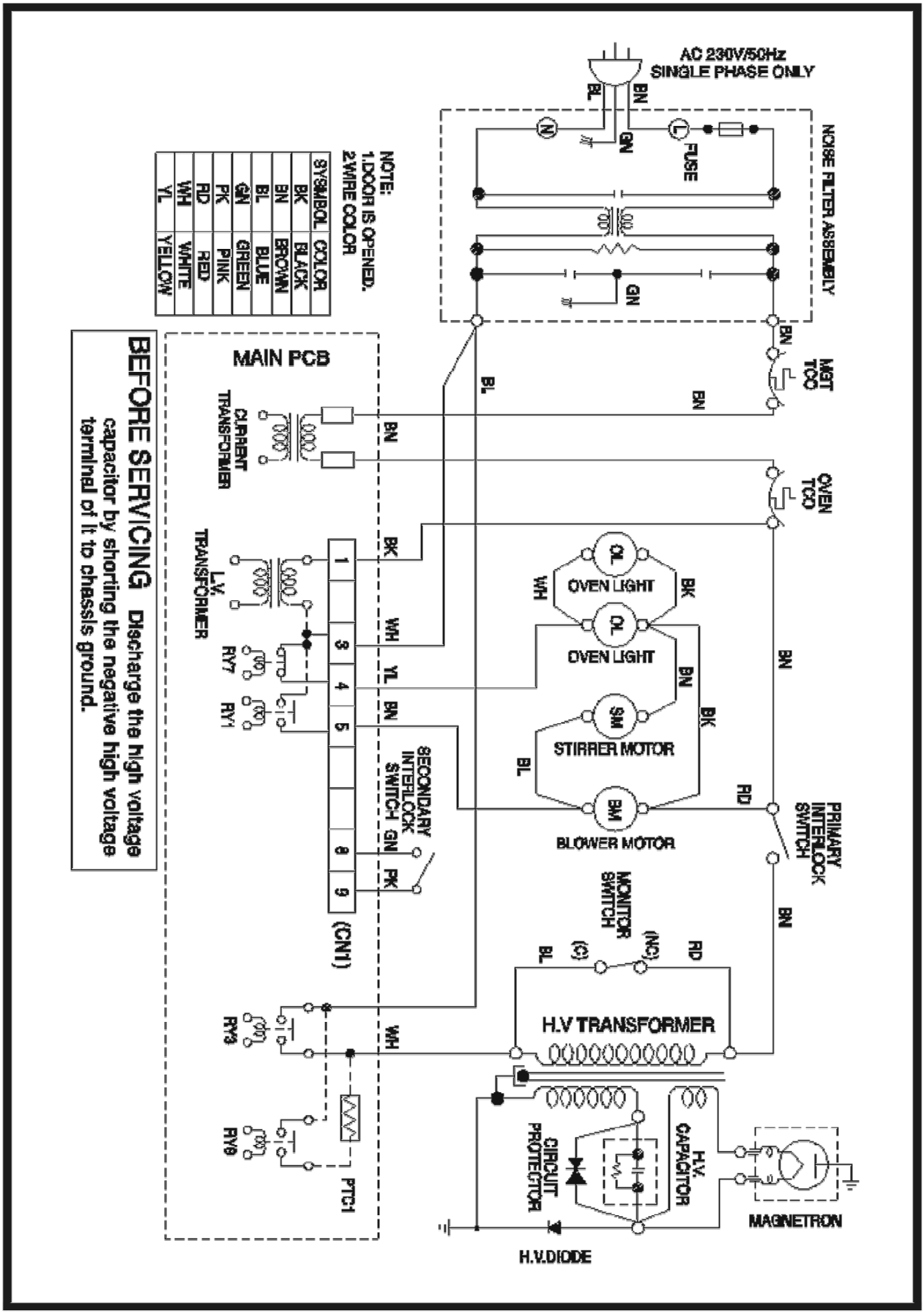
**NOTE:** Use a digital watch or a watch with a second hand for ovens with electromechanical timers.

5. At end of the cycle, remove test container. Using the thermometer, stir water for five to ten seconds and record temperature (T2).
6. Subtract the starting water temperature (T1), from the ending water temperature (T2) to obtain the temperature rise (ΔT).
7. If the temperature rise (ΔT) meets or exceeds the minimum, the test is complete. If the temperature rise (ΔT) fails to meet the minimum temperature rise, test the line voltage to verify it is correct. Then repeat steps 1 - 6 making sure to change the water. If the temperature rise (ΔT) fails to meet the minimum temperature rise again the oven will require service.

**Minimum Temperature Rise at Thirty -Three (33) Seconds Run Time**

| ΔT (°F) | Cooking Power Output | ΔT (°F) | Cooking Power Output | ΔT (°C) | Cooking Power Output | ΔT (°C) | Cooking Power Output |
|---|---|---|---|---|---|---|---|
| 10 | 1000 | 20 | 2000 | 5 | 1000 | 11 | 2000 |
| 11 | 1100 | 21 | 2100 | 5.5 | 1100 | 11.5 | 2100 |
| 12 | 1200 | 22 | 2200 | 6.5 | 1200 | 12 | 2200 |
| 14 | 1400 | 24 | 2400 | 7.5 | 1400 | 13 | 2400 |
| 17 | 1700 | 25 | 2500 | 9.5 | 1700 | 13.5 | 2500 |
| 18 | 1800 | 27 | 2700 | 10 | 1800 | 15 | 2700 |
| 19 | 1900 | 30 | 3000 | 10.5 | 1900 | 16.5 | 3000 |

# Wiring and Schematic Diagram



# Quick Reference 4/15/2005
# Functional Parts List

| DESCRIPTION | URS511P P1330225M | RS511P P1330212M | RFS511SWA P1330223M | RCS511A P1330214M | URCS511A P1330226M | RS511MB P1330211M | URS511MB P1330224M |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| **Electrical Parts** | | | | | | | |
| HV/ LV board | 53001612 | 53001612 | 53001612 | 53001612 | 53001612 | 53001813 | 53001813 |
| Touch Panel | 53001604 | 53001604 | 53001874 | 53001574 | 53001574 | 53001762 | 53001762 |
| Escutcheon/ TP assy. | 53001525 | 53001822 | 53001823 | 53001821 | 53001858 | 53001814 | 53001815 |
| Interlock switch assy. | 53001601 | 53001601 | 53001601 | 53001601 | 53001601 | 53001601 | 53001601 |
| Fuse- 12 A. | M0805105 | M0805105 | M0805105 | M0805105 | M0805105 | M0805105 | M0805105 |
| Fuse block/ filter assy. | 53001667 | 53001667 | 53001667 | 53001667 | 53001667 | 53001667 | 53001667 |
| Thermal cut-out (mag) | R9900542 | R9900542 | R9900542 | R9900542 | R9900542 | R9900542 | R9900542 |
| Thermal cut-out (cavity) | 53001817 | 53001817 | 53001817 | 53001817 | 53001817 | 53001817 | 53001817 |
| Blower motor assy. | 53001670 | 53001670 | 53001670 | 53001670 | 53001670 | 53001670 | 53001670 |
| Lamp socket/ bracket | 53001591 | 53001591 | 53001591 | 53001591 | 53001591 | 53001591 | 53001591 |
| Motor, antenna | 59001625 | 59001625 | 59001625 | 59001625 | 59001625 | 59001625 | 59001625 |
| Antenna kit w/ rivets | 12002451 | 12002451 | 12002451 | 12002451 | 12002451 | 12002451 | 12002451 |
| Power cord | 53001662 | 53001818 | 53001818 | 53001818 | 53001662 | 53001818 | 53001662 |
| Harness- main oven | 53001661 | 53001661 | 53001661 | 53001661 | 53001661 | 53001661 | 53001661 |
| Harness- trans primary | 53001668 | 53001668 | 53001668 | 53001668 | 53001668 | 53001668 | 53001668 |
| | | | | | | | |
| **HV Parts** | | | | | | | |
| Capacitor | 59001171 | 59001171 | 59001171 | 59001171 | 59001171 | 59001171 | 59001171 |
| Diode | 53001583 | 53001583 | 53001583 | 53001583 | 53001583 | 53001583 | 53001583 |
| Cable Assy., Circuit Protector | 53001725 | 53001725 | 53001725 | 53001725 | 53001725 | 53001725 | 53001725 |
| Magnetron | 53001581 | 53001581 | 53001581 | 53001581 | 53001581 | 53001581 | 53001581 |
| Transformer- HV | 53001669 | 53001819 | 53001819 | 53001819 | 53001669 | 53001819 | 53001669 |
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| **Continued…** | | | | | | | |

# Quick Reference 4/15/2005
# Functional Parts List

| DESCRIPTION | URS511P P1330225M | RS511P P1330212M | RFS511SWA P1330223M | RCS511A P1330214M | URCS511A P1330226M | RS511MB P1330211M | URS511MB P1330224M |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| **Door Parts** | | | | | | | |
| Handle kit w/ screws | 12002453 | 12002453 | 12002453 | 12002453 | 12002453 | 12002453 | 12002453 |
| Set screw- side | 53001547 | 53001547 | 53001547 | 53001547 | 53001547 | 53001547 | 53001547 |
| Set screw- bottom | 53001546 | 53001546 | 53001546 | 53001546 | 53001546 | 53001546 | 53001546 |
| Outer door assy. | 53001544 | 53001544 | 53001820 | 53001820 | 53001820 | 53001544 | 53001544 |
| Choke cover | 53001608 | 53001608 | 53001572 | 53001572 | 53001572 | 53001608 | 53001608 |
| Inner door weldment | 53001778 | 53001778 | 53001778 | 53001778 | 53001778 | 53001778 | 53001778 |
| Latch assy. | 53001779 | 53001779 | 53001779 | 53001779 | 53001779 | 53001779 | 53001779 |
| Spring | 53001780 | 53001780 | 53001780 | 53001780 | 53001780 | 53001780 | 53001780 |
| Cap- top hinge | 53001543 | 53001543 | 53001543 | 53001543 | 53001543 | 53001543 | 53001543 |
| | | | | | | | |
| **Cabinet Parts** | | | | | | | |
| Wrapper- outercase | 53001577 | 53001549 | 53001577 | 53001577 | 53001577 | 53001549 | 53001549 |
| Cover- lamp access | 53001579 | 53001550 | 53001579 | 53001579 | 53001579 | 53001550 | 53001550 |
| Baseplate assy. | 53001625 | 53001625 | 53001625 | 53001625 | 53001625 | 53001625 | 53001625 |
| Gasket- base side | 53001626 | 53001626 | 53001626 | 53001626 | 53001626 | 53001626 | 53001626 |
| Gasket- base front | 53001627 | 53001627 | 53001627 | 53001627 | 53001627 | 53001627 | 53001627 |
| | | | | | | | |
| **Customer Replaceable Parts** | | | | | | | |
| Tray-ceramic | 53001555 | 53001555 | 53001555 | 53001555 | 53001555 | 53001555 | 53001555 |
| Knob- timer | | | | | | 53001719 | 53001719 |
| Suction cup- to remove tray | 59001235 | 59001235 | 59001235 | 59001235 | 59001235 | 59001235 | 59001235 |
| Lamp | 53001590 | 53001590 | 53001590 | 53001590 | 53001590 | 53001590 | 53001590 |
| Grease shield | 53001556 | 53001556 | 53001556 | 53001556 | 53001556 | 53001556 | 53001556 |
| Filter- air | 53001571 | 53001571 | 53001571 | 53001571 | 53001571 | 53001571 | 53001571 |
| Stacking bracket | 53001619 | 53001619 | 53001619 | 53001619 | 53001619 | 53001619 | 53001619 |
| Use & care manual | 53001634 | 53001634 | 53001634 | 53001634 | 53001634 | 53001634 | 53001634 |
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# Quick Reference 3/31/2005
# Functional Parts List

| DESCRIPTION | US11EA P1330229M | UFS11EA P1330230M | DFS11EA P1330220M | DES11EA P1330218M | UCS11MA P1330228M | DECS11MA P1330217M | |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| **Electrical Parts** | | | | | | | |
| HV/ LV board | 53001831 | 53001659 | 53001659 | 53001831 | 53001813 | 53001813 | |
| Touch Panel | 53001827 | 53001735 | 53001735 | 53001827 | 53001719 | 53001719 | |
| Escutcheon/ TP assy. | 53001829 | 53001830 | 53001824 | 53001828 | 53001816 | 53001862 | |
| Interlock switch assy. | 53001601 | 53001601 | 53001601 | 53001601 | 53001601 | 53001601 | |
| Fuse- 12 A. | M0805105 | M0805105 | M0805105 | M0805105 | M0805105 | M0805105 | |
| Fuse block/ filter assy. | 53001667 | 53001667 | 53001667 | 53001667 | 53001667 | 53001667 | |
| Thermal cut-out (mag) | R9900542 | R9900542 | R9900542 | R9900542 | R9900542 | R9900542 | |
| Thermal cut-out (cavity) | 53001817 | 53001817 | 53001817 | 53001817 | 53001817 | 53001817 | |
| Blower motor assy. | 53001670 | 53001670 | 53001670 | 53001670 | 53001670 | 53001670 | |
| Lamp socket/ bracket | 53001832 | 53001591 | 53001591 | 53001832 | 53001591 | 53001591 | |
| Motor, antenna | 59001625 | 59001625 | 59001625 | 59001625 | 59001625 | 59001625 | |
| Antenna kit w/ rivets | 12002451 | 12002451 | 12002451 | 12002451 | 12002451 | 12002451 | |
| Power cord | 53001662 | 53001662 | 53001818 | 53001818 | 53001662 | 53001818 | |
| Harness- main oven | 53001661 | 53001661 | 53001661 | 53001661 | 53001661 | 53001661 | |
| Harness- trans primary | 53001668 | 53001668 | 53001668 | 53001668 | 53001668 | 53001668 | |
| | | | | | | | |
| **HV Parts** | | | | | | | |
| Capacitor | 59001171 | 59001171 | 59001171 | 59001171 | 59001171 | 59001171 | |
| Diode | 53001583 | 53001583 | 53001583 | 53001583 | 53001583 | 53001583 | |
| Cable Assy., Circuit Protector | 53001725 | 53001725 | 53001725 | 53001725 | 53001725 | 53001725 | |
| Magnetron | 53001581 | 53001581 | 53001581 | 53001581 | 53001581 | 53001581 | |
| Transformer- HV | 53001669 | 53001669 | 53001819 | 53001819 | 53001669 | 53001819 | |
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| **Continued…** | | | | | | | |

# Quick Reference 3/31/2005
# Functional Parts List

| DESCRIPTION | US11EA P1330229M | UFS11EA P1330230M | DFS11EA P1330220M | DES11EA P1330218M | UCS11MA P1330228M | DECS11MA P1330217M | |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| **Door Parts** | | | | | | | |
| Handle kit w/ screws | 12002453 | 12002453 | 12002453 | 12002453 | 12002453 | 12002453 | |
| Set screw- side | 53001547 | 53001547 | 53001547 | 53001547 | 53001547 | 53001547 | |
| Set screw- bottom | 53001546 | 53001546 | 53001546 | 53001546 | 53001546 | 53001546 | |
| Outer door assy. | 53001544 | 53001544 | 53001820 | 53001820 | 53001811 | 53001811 | |
| Choke cover | 53001608 | 53001572 | 53001572 | 53001608 | 53001608 | 53001608 | |
| Inner door weldment | 53001778 | 53001778 | 53001778 | 53001778 | 53001778 | 53001778 | |
| Latch assy. | 53001779 | 53001779 | 53001779 | 53001779 | 53001779 | 53001779 | |
| Spring | 53001780 | 53001780 | 53001780 | 53001780 | 53001780 | 53001780 | |
| Cap- top hinge | 53001543 | 53001543 | 53001543 | 53001543 | 53001543 | 53001543 | |
| | | | | | | | |
| **Cabinet Parts** | | | | | | | |
| Wrapper- outercase | 53001549 | 53001577 | 53001577 | 53001549 | 53001549 | 53001549 | |
| Cover- lamp access | 53001550 | 53001579 | 53001579 | 53001550 | 53001550 | 53001550 | |
| Baseplate assy. | 53001625 | 53001625 | 53001625 | 53001625 | 53001625 | 53001625 | |
| Gasket- base side | 53001626 | 53001626 | 53001626 | 53001626 | 53001626 | 53001626 | |
| Gasket- base front | 53001627 | 53001627 | 53001627 | 53001627 | 53001627 | 53001627 | |
| | | | | | | | |
| **Customer Replaceable Parts** | | | | | | | |
| Tray-ceramic | 53001555 | 53001555 | 53001555 | 53001555 | 53001555 | 53001555 | |
| Knob- timer | | | | | 53001719 | 53001719 | |
| Suction cup- to remove tray | 59001235 | 59001235 | 59001235 | 59001235 | 59001235 | 59001235 | |
| Lamp | 53001590 | 53001590 | 53001590 | 53001590 | 53001590 | 53001590 | |
| Grease shield | 53001556 | 53001556 | 53001556 | 53001556 | 53001556 | 53001556 | |
| Filter- air | 53001571 | 53001571 | 53001571 | 53001571 | 53001571 | 53001571 | |
| Stacking bracket | 53001619 | 53001619 | 53001619 | 53001619 | 53001619 | 53001619 | |
| Use & care manual | 53001634 | 53001634 | 53001634 | 53001634 | 53001634 | 53001634 | |
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